



# SEQUENCE LISTING

<110> Sundstrom, Paula

<120> METHODS AND COMPOSITIONS FOR REGULATING BUD-HYPHA TRANSITIONS AND  
cAMP LEVELS BY THE ADENYLATE CYCLASE-ASSOCIATED PROTEIN GENE,  
CAP

<130> 48544.00012

<140> 10/672,074

<141> 2003-09-29

<160> 15

<170> PatentIn version 3.2

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<212> PRT

<213> Candida albicans

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Thr Ile Phe Gln Glu Glu Ala Asn Lys Asn His Tyr Gly Val Asp Ser  
35 40 45

Leu Thr Glu Lys Gly Thr Pro Lys Ser Arg Thr Val Glu Ser Ser Glu  
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Ala Thr Ser Asp Gly Lys Ser Leu Glu Ser Thr Ser Phe Ala Thr Phe  
65 70 75 80

Ser Glu Ala Pro Val Glu Lys Ser Lys Leu Ile Val Glu Phe Glu Asn  
85 90 95

Phe Val Glu Ser Tyr Val His Pro Leu Val Glu Thr Ser Lys Lys Ile  
100 105 110

Asp Ser Leu Val Gly Glu Ser Ala Gln Tyr Phe Tyr Glu Ala Phe Val  
115 120 125

Glu Gln Gly Lys Phe Leu Glu Leu Val Leu Gln Ser Gln Gln Pro Asp  
130 135 140

Met Thr Asp Pro Ala Leu Ala Lys Ala Leu Glu Pro Met Asn Ala Lys  
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Cys Thr Lys Ile Asn Glu Leu Lys Asp Ser Asn Arg Lys Ser Pro Phe  
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Phe Asn His Leu Ser Thr Phe Ser Glu Ser Asn Ala Val Phe Tyr Trp  
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Ile Gly Ile Pro Thr Pro Val Ser Tyr Ile Thr Asp Thr Lys Asp Thr  
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Val Lys Phe Trp Ser Asp Arg Val Leu Lys Glu Tyr Lys Thr Lys Asp  
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Gln Val His Val Glu Trp Val Lys Gln Thr Leu Ser Val Phe Asp Glu  
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Leu Lys Asn Tyr Val Lys Glu Tyr His Thr Thr Gly Val Ala Trp Asn  
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Pro Lys Gly Lys Pro Phe Ala Glu Val Val Ser Gln Gln Thr Glu Ser  
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Ala Ala Lys Asn Ser Ser Ser Ala Ser Gly Ser Ala Gly Gly Ala Ala  
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Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala Thr Phe Phe Asp Asp Thr  
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Glu Lys Asp Ser Glu Asn Pro Ser Pro Ala Ser Gly Gly Ile Asn Ala  
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Val Phe Ala Glu Leu Asn Gln Gly Ala Asn Ile Thr Ser Gly Leu Lys  
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Lys Val Asp Lys Ser Glu Met Thr His Lys Asn Pro Glu Leu Arg Lys  
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Gln Pro Pro Val Ala Pro Lys Lys Pro Ala Pro Pro Lys Lys Pro Ser  
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Ser Leu Ser Gly Gly Val Ser Ser Ala Pro Val Lys Lys Pro Ala Lys  
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Lys Glu Leu Ile Asp Gly Thr Lys Trp Ile Ile Gln Asn Phe Thr Lys  
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Ala Asp Ile Ser Asp Leu Ser Pro Ile Thr Ile Glu Val Glu Met His  
405 410 415

Gln Ser Val Phe Ile Gly Asn Cys Ser Asp Val Thr Ile Gln Leu Lys  
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Gly Lys Ala Asn Ala Val Ser Val Ser Glu Thr Lys Asn Val Ala Leu  
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Val Ile Asp Ser Leu Ile Ser Gly Val Asp Val Ile Lys Ser Tyr Lys  
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Phe Gly Ile Gln Val Leu Gly Leu Val Pro Met Leu Ser Ile Asp Lys  
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Ser Asp Glu Gly Thr Ile Tyr Leu Ser Gln Glu Ser Ile Asp Asn Asp  
485 490 495

Ser Gln Val Phe Thr Ser Ser Thr Thr Ala Leu Asn Ile Asn Ala Pro  
500 505 510

Lys Glu Asn Asp Asp Tyr Glu Glu Leu Ala Val Pro Glu Gln Phe Val  
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Ala Ser Leu Phe Ile Asn Lys Val Leu Arg Ile Cys Trp Pro Asp Leu  
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Leu Thr Cys Thr Ile Glu Glu Lys Ser Glu Leu Thr Ile Arg Ser Leu  
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Ile Ile Ser Ser Ile Leu Ala Thr Asp Met Gly Glu His Asn Glu Tyr  
85 90 95

Val Asn Arg Leu Lys Ser Phe Lys Thr His Asn Glu Ile Leu Asn His  
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Asp Asn Thr Val Lys Leu Ile Ser Ala Leu Leu Ile Lys Cys Ala Asp  
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Glu Val Ala Gln Asn Phe Lys Asn Val Ser Ile Leu Glu Asn Phe His  
35 40 45

Arg Glu Leu Phe Gln Gln Leu Leu Ser Glu His Trp Pro Leu Lys Leu  
50 55 60

Ser Ile Ser Lys Lys Lys Phe Asp Phe Ile Ser Glu Ala Ile Leu Ala  
65 70 75 80

Thr Asp Met Ala Leu His Ser Gln Tyr Glu Asp Arg Leu Met His Glu  
85 90 95

Asn Pro Met Lys Gln Ile Thr Leu Ile Ser Leu Ile Ile Lys Ala Ala  
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Tyr Leu Ile Thr Leu Glu Phe  
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Val Leu Ala Ala Leu Tyr Ser Ser Glu Gly Ser Val Met Glu Arg His  
35 40 45

His Phe Ala Gln Ala Ile Ala Ile Leu Asn Thr His Gly Cys Asn Ile  
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Phe Asp His Phe Ser Arg Lys Asp Tyr Gln Arg Met Leu Asp Leu Met  
65 70 75 80

Arg Asp Ile Ile Leu Ala Thr Asp Leu Ala His His Leu Arg Ile Phe  
85 90 95

Lys Asp Leu Gln Lys Met Ala Glu Val Gly Tyr Asp Arg Asn Asn Lys  
100 105 110

Gln His His Arg Leu Leu Leu Cys Leu Leu Met Thr Ser Cys Asp Leu  
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Ile Tyr Lys Glu Phe  
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35 40 45

Ile Phe Pro Thr Asn Asn Asp Ile Pro Ser Arg Lys Thr Arg Ser Thr  
50 55 60

Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Asn Thr Ser Lys Leu Asp  
65 70 75 80

Asn Leu Pro Phe Ser Asp Lys Ser Leu Leu Ile Gln Phe Phe Phe Thr  
85 90 95

His Leu Asn Ile Leu Met Ile Gln Gly Glu Asn Ser Asp Glu Gly Lys  
100 105 110

Leu Tyr Gln Glu Ile Ser Ser Ala Lys Glu Leu Leu Thr Asn Arg Ile  
115 120 125

Ser Arg Val Gly Asn Trp Thr Gly Thr Thr His Phe Arg Tyr Cys Arg  
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His Glu Asn Asp Cys Gly Leu Leu Asn Gln His Ser Lys Ile Ala Gly  
 145 150 155 160

Ile Ile Pro Thr Met Thr Tyr Ile Leu Asn Cys Asn Ala Thr Arg Ser  
 165 170 175

Glu Ile Ala Thr Asn Gln Leu Ile Tyr Leu Tyr Arg Leu Met Ile Glu  
 180 185 190

Glu Ile Asn Phe Ile Glu Leu Leu Gln Asp Ala Ser Thr Thr Arg Leu  
 195 200 205

Ser Gln Leu Cys Tyr Ala Val Gly His Trp Ser Phe Pro Ala His Asn  
 210 215 220

Leu Ser Asn Asp Asp Leu Val Tyr Cys Val Tyr Leu Met Ile Asp Tyr  
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Ala Ile Lys Gln Val Glu Gly Phe Asp Asn Ile Pro Leu Asn Glu Leu  
 245 250 255

Leu Ala Phe Ile Phe Ile Val Arg Asp Thr Tyr Lys Asn Gly Asn Pro  
 260 265 270

Phe His Asn Phe Arg His Ala Val Asp Val Leu Gln Ala Cys Phe His  
 275 280 285

Phe Leu Ile Arg Leu Gly Ser Leu Pro Lys Phe Lys Gln Phe Val Glu  
 290 295 300

Asp Pro Lys Leu Asp Tyr Thr Glu Val His Asp Thr His Thr Val Leu  
 305 310 315 320

Ile Ala Leu Gln Asn Asn Ser Ser Glu Glu Lys Ala Ser Leu Asn Pro  
 325 330 335

Ile Gln Thr Leu Gly Leu Leu Val Ala Ala Leu Gly His Asp Val Gly  
 340 345 350

His Pro Gly Thr Thr Asn Asp Phe Met Ile Lys Phe Ser Ala Pro Thr  
 355 360 365



Ala Leu Leu Tyr Asn Asp Arg Ser Val Leu Glu Ser Tyr His Ala Ser  
370 375 380

Leu Phe Ile Asn Lys Val Leu Arg Ile Cys Trp Pro Asp Leu Leu Thr  
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Cys Thr Ile Glu Glu Lys Ser Glu Leu Thr Ile Arg Ser Leu Ile Ile  
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Ser Ser Ile Leu Ala Thr Asp Met Gly Glu His Asn Glu Tyr Val Asn  
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Arg Leu Lys Ser Phe Lys Thr His Asn Glu Ile Leu Asn His Asp Asn  
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Thr Val Lys Leu Ile Ser Ala Leu Leu Ile Lys Cys Ala Asp Ile Ser  
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Asn Val Thr Arg Pro Leu Arg Val Ser Ala Gln Trp Ala Met Val Leu  
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Ser Arg Glu Phe Ala Glu Val Glu Leu Leu Lys Ser Val Ile Lys Lys  
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Asp Ile Asp Leu Asp Phe Thr Lys Asp Leu Thr Tyr Asp Asp Val Pro  
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His Glu Leu Arg Glu Ile Leu Glu Ile Gln Pro Asp Ile His Lys Gly  
515 520 525

Gln Ile Phe Phe Ile Asn Leu Phe Ala Glu Asn Leu Phe Asn Ser Val  
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Phe	Lys	Lys	Thr	Ser	Thr	Glu	Thr	Asp	Ser	Asn	Val	Pro	Ile	Val	Ile	35	40	45	
Ile	Phe	Pro	Thr	Asn	Asn	Asp	Ile	Pro	Ser	Arg	Lys	Thr	Arg	Ser	Thr	50	55	60	
Thr	Thr	Thr	Thr	Thr	Thr	Ala	Thr	Thr	Thr	Asn	Thr	Ser	Lys	Leu	Asp	65	70	75	80
Asn	Leu	Pro	Phe	Ser	Asp	Lys	Ser	Leu	Leu	Ile	Gln	Phe	Phe	Phe	Thr	85	90	95	
His	Leu	Asn	Ile	Leu	Met	Ile	Gln	Gly	Glu	Asn	Ser	Asp	Glu	Gly	Lys	100	105	110	
Leu	Tyr	Gln	Glu	Ile	Ser	Ser	Ala	Lys	Glu	Leu	Leu	Thr	Asn	Arg	Ile	115	120	125	
Ser	Arg	Val	Gly	Asn	Trp	Thr	Gly	Thr	Thr	His	Phe	Arg	Tyr	Cys	Arg	130	135	140	
His	Glu	Asn	Asp	Cys	Gly	Leu	Leu	Asn	Gln	His	Ser	Lys	Ile	Ala	Gly	145	150	155	160
Ile	Ile	Pro	Thr	Met	Thr	Tyr	Ile	Leu	Asn	Cys	Asn	Ala	Thr	Arg	Ser	165	170	175	
Glu	Ile	Ala	Thr	Asn	Gln	Leu	Ile	Tyr	Leu	Tyr	Arg	Leu	Met	Ile	Glu	180	185	190	
Glu	Ile	Asn	Phe	Ile	Glu	Leu	Leu	Gln	Asp	Ala	Ser	Thr	Thr	Arg	Leu	195	200	205	
Ser	Gln	Leu	Cys	Tyr	Ala	Val	Gly	His	Trp	Ser	Phe	Pro	Ala	His	Asn	210	215	220	
Leu	Ser	Asn	Asp	Asp	Leu	Val	Tyr	Cys	Val	Tyr	Leu	Met	Ile	Asp	Tyr	225	230	235	240

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Leu Ala Phe Ile Phe Ile Val Arg Asp Thr Tyr Lys Asn Gly Asn Pro  
 260 265 270

Phe His Asn Phe Arg His Ala Val Asp Val Leu Gln Ala Cys Phe His  
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Phe Leu Ile Arg Leu Gly Ser Leu Pro Lys Phe Lys Gln Phe Val Glu  
 290 295 300

Asp Pro Lys Leu Asp Tyr Thr Glu Val His Asp Lys His Thr Val Leu  
 305 310 315 320

Ile Ala Leu Gln Asn Asn Ser Ser Glu Glu Lys Ala Ser Leu Asn Pro  
 325 330 335

Ile Gln Thr Leu Gly Leu Leu Val Ala Ala Leu Gly His Asp Val Gly  
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His Pro Gly Thr Thr Asn Asp Phe Met Ile Lys Phe Ser Ala Pro Thr  
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Ala Leu Leu Tyr Asn Asp Arg Ser Val Leu Glu Ser Tyr His Ala Ser  
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Leu Phe Ile Asn Lys Val Leu Arg Ile Cys Trp Pro Asp Leu Leu Thr  
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Cys Thr Ile Glu Glu Lys Ser Glu Leu Thr Ile Arg Ser Leu Ile Ile  
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Ser Ser Ile Leu Ala Thr Asp Met Gly Glu His Asn Glu Tyr Val Asn  
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Arg Leu Lys Ser Phe Lys Thr His Asn Glu Ile Leu Asn His Asp Asn  
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Thr Val Lys Leu Ile Ser Ala Leu Leu Ile Lys Cys Ala Asp Ile Ser  
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Asn Val Thr Arg Pro Leu Arg Val Ser Ala Gln Trp Ala Met Val Leu  
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Ser Arg Glu Phe Ala Glu Val Glu Leu Leu Lys Ser Val Ile Lys Lys  
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Asp Ile Asp Leu Asp Phe Thr Lys Asp Leu Thr Tyr Asp His Val Pro  
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His Glu Leu Arg Glu Ile Leu Glu Ile Gln Pro Asp Ile His Lys Gly  
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Gln Ile Phe Phe Ile Asn Leu Phe Ala Glu Asn Leu Phe Asn Ser Val  
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